

TCP/IP REFERENCE MODEL

18→ APPLICATION LAYER	TELNET, FTP, SMTP, DNS
16→ TRANSPORT LAYER	TCP, UDP
14→ NETWORK LAYER	IP
12→ DATA LINK LAYER	ETHERNET, TOKEN RING, DQDB
10→ PHYSICAL LAYER	FIBER OPTICS, COAXIAL CABLE

FIG. 1
(PRIOR ART)

EXAMPLE PACKET

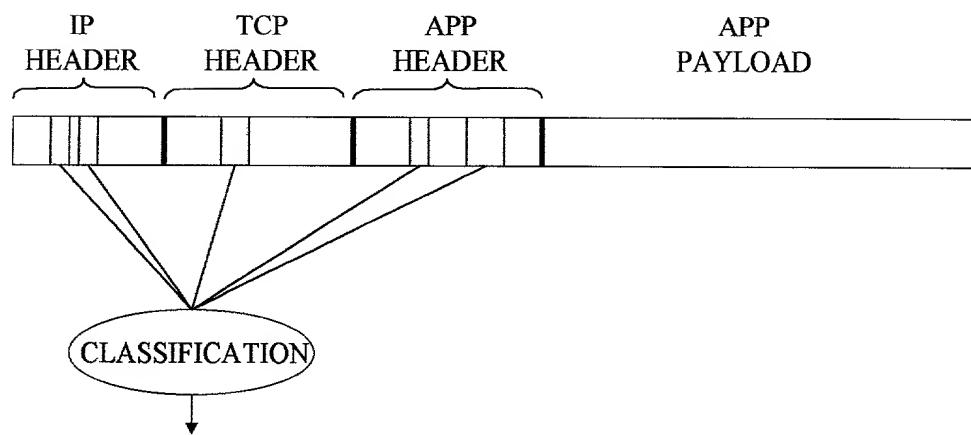


FIG. 2
(PRIOR ART)

IP PACKET (DATAGRAM)

0	4	8	16	19	24	31									
VERS	HLEN	TYPE SERVICE	TOTAL LENGTH												
IDENTIFICATION			FLAGS	FRAGMENT OFFSET											
TIME TO LIVE	PROTOCOL		HEADER CHECKSUM												
SOURCE IP ADDRESS															
DESTINATION IP ADDRESS															
IP OPTIONS (IF ANY)					PADDING										
DATA															
.....															

FIG. 3
(PRIOR ART)

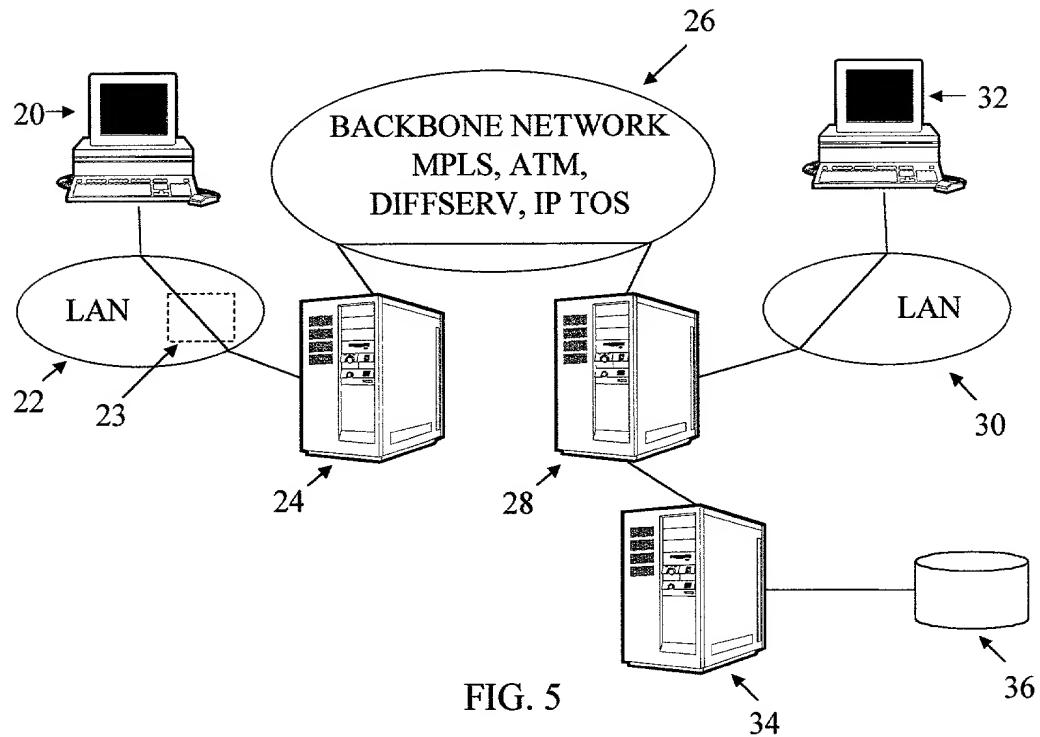
TCP SEGMENT

0 4 10 16 24 31

SOURCE PORT	DESTINATION PORT
SEQUENCE NUMBER	
ACKNOWLEDGEMENT NUMBER	
HLEN	RESERVED
CODE BITS	WINDOW
CHECKSUM	URGENT POINTER
OPTIONS (IF ANY)	PADDING
DATA

FIG. 4
(PRIOR ART)

NETWORK ARCHITECTURE



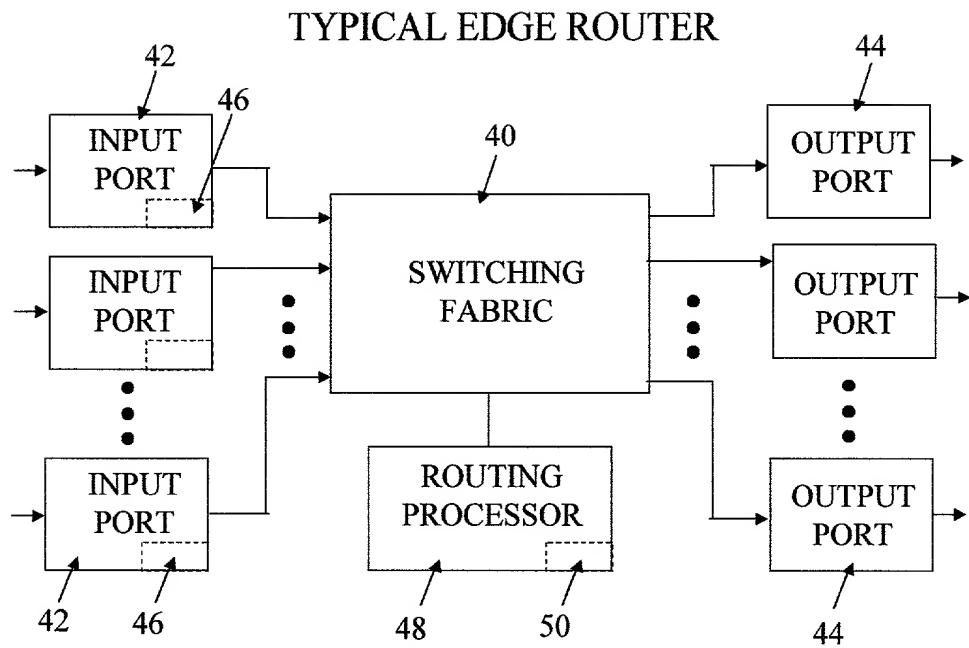


FIG. 6

CLASSIFICATION FUNCTIONALITY

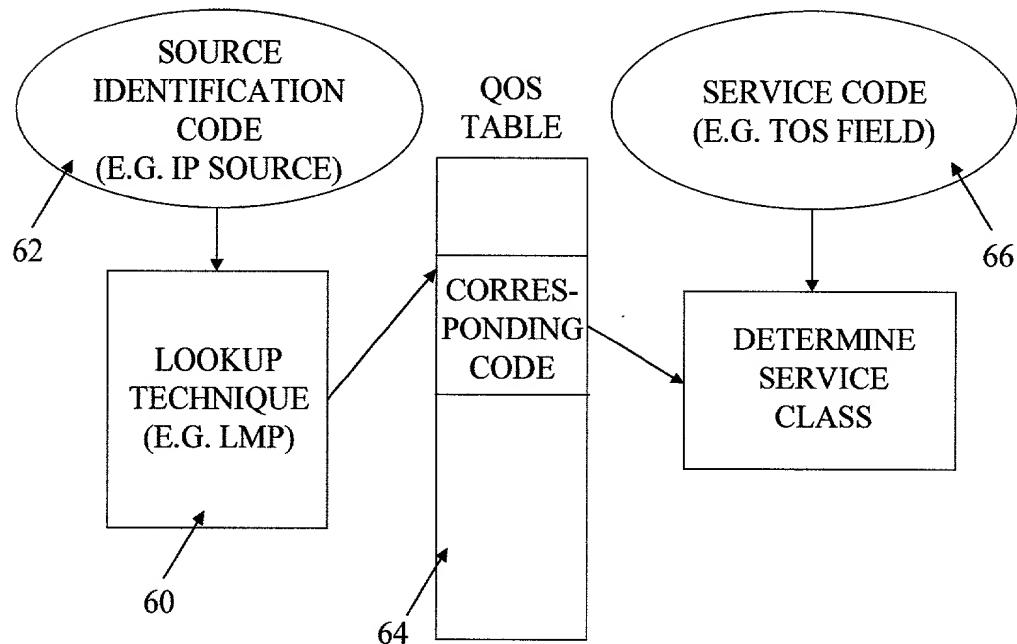


FIG. 7